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September 1997

FIRST CLASS MAIL



1 Renew before 03/31/98
RONALD DEUTSCH
NKKBP
4305 RIDGELANE DR.
COLORADO SPRINGS, CO 80918

Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521
Colorado Springs, Colorado 80935



O-Beat



Pikes Peak Radio Amateur Association Officers and Directors

President: Jeff Boyes	NØJLH	577-6029	jboyas@usa.net
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Secretary: Ron Deutsch	NKØP	593-8352	deutschra@aol.com
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Board Mbr: Mark Richardson	NØEPF	442-0917	markr@tso4u.com
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*This Officer/Director is completing the second year of the two-year term to which they were elected.

The O-Beat is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see the last page of this publication. Monthly advertising rates: Full page, \$48; Half page, \$24; Quarter page, \$12; Business card, \$6. These rates are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80935.

Check out the PPRAA page on the World Wide Web! Go to: <http://www.qsl.net/ppraa>

Deadline for submission of articles or advertisements is the 20th of each month. Submissions are accepted in any form. Articles should be sent directly to the O-Beat Editor (email to kdøju-1@juno.com is preferred.) Permission is granted to reprint articles provided credit is given to both the author and this publication.

License Exams

License examinations sponsored by the Pikes Peak Radio Amateur Association are held on the 2nd Saturday of February, April, June, August, October, and December.

Testing takes place at 9 A.M. at:

Denver Technical College
225 South Union
Colorado Springs

Everyone is seated on a walk-in basis. Those wishing to take an exam should bring the following items:

1. \$6.25 (preferably a check/money order made out to ARRL/VEC) for any exam other than element 1A or 2.
2. Picture identification.

3. A copy of your current amateur radio license, and/or a copy of any examination credit you have, as well as the signed original. We keep the copies.

4. A pen, pencils, and a calculator if you need one.

If you have any questions, call Erik Mugele, KGØXE at 596-5345. Please do not call Denver Technical College.

Committee Chairpersons/Contacts

O-Beat Editor	Bill Pierce	KDØJU	550-0406
Activity	Renay Boyes	KAØROY	577-6029
Auditing	Any Volunteer's?		
Asset	Mike Stansberry	KØTER	636-1290
Historian	Jodi Borst	KAØROZ	634-3995
Interference	Bill Petty	NØNJX	591-2116
Membership	Les Borst	KCØNC	634-3995
Programs	Aaron Pelouze	KD6FLM	282-9715
Publicity	Aaron Pelouze	KD6FLM	282-9715
Public Service	Mike Stansberry	KØTER	636-1290
Swapfest '98	Carlos Caro	KBØREI	632-1569
Technical Instruction	Linda Hedges	KBØRKW	520-9238
VE Testing	Erik Mugele	KGØXE	596-5345

Other Organizational Liaisons

ARES Liaison	Mike Stansberry	KØTER	636-1290
CCARC Liaison	Ron Deutsch	NKØP	593-8352
RACES Liaison	Bryan Curl	NØLUF	575-8400

Reminder — General Membership Meeting

The next General Membership Meeting of the Pikes Peak Radio Amateur Association will be on the second Wednesday of this month at the Mt Calvary Lutheran Church, 1318 N. Circle Drive. The meeting will start at 7 PM.

SEPTEMBER PROGRAM

SEPTEMBER PROGRAM

Just in case you want to know who is and what the program is, it's. Tom McDaniel NØNTX. He will speak to on the topic of satellites.

The program for the November meeting will be Jeff, NØWPA and Mike, KØTER will be doing packet

We urge all of you interested in this topic to attend.

'The Board'

PPRAA General Membership Meeting Minutes for August 17, 1997 The meeting opened at 7:05 PM. Jeff started with a round of introductions and welcoming of new members and guests.

Rob gave the treasurers report. Out current cash assets from all sources are \$6649. Ron invited everyone to our annual picnic on Aug 17, 1997.

Jody is still looking for club historical records.

Les asked all to contact him if there are corrections to the club roster.

Carlos talked about the 1998 Swapfest and invited all interested members to the monthly Swapfest meeting held the 1st Saturday of each month at 10 am at the Falcon Police Substation.

Old Business: An election was held to fill the vacancy on the board left by NØEPF's resignation. There were two nominees from the floor: Al, NØCMW and Bill, NØNJX. After

the ballots were counted Al, NØCMW will fill the unexpired portion of NØEPF's board position.

New Business:

Jeff talked about some club members desire to have more technical information and less business at the General Membership meeting. The was tabled for further review and comments. Hammy: Hammy was presented to Tom, NØNTX for his long standing support of the PPRAA. After and intermission Marshal Quiat, AGØX, discussed the pros and cons of 501 c-3 status. The meeting adjourned at 8:30 PM.

Submitted by Ron, NKØP. Club Secretary.

El Paso County HF Roundtable

Sunday evenings just after the El Paso County RACES 7:30 PM (local) HF net, on 28.385 MHz.

Everyone is invited to check in.

PPRAA Board Meeting Minutes of Aug 17, 1997

The meeting was held at the annual picnic and convened at 1:30. The following members and guest were present: KDØJU, KAØROZ, NØCMW, NKØP, WAØMNL, NØJLH, KO6TN, WB7WHT, KCØNC, WAØOOD, KD6FLM. There were 49 adults signed in at the annual picnic.

There was discussion about field day sponsorship.

Rob brought up the need to welcome new members and guests at the club meeting personally, not just at the roundtable introductions. Rob suggested the PPRAA have a board member on the Sunday night PPFMA net to answer questions and announce activities.

There was also a discussion about having a specific PRAA net to announce club activities.

There is still no word about missing club equipment. Jeff will pursue Police Dept. recovered property section.

No East Library display is planned this year.

Rob discussed his recent efforts to engage young people in Ham radio discussion and classes. He volunteered to chair an education committee if the membership approves.

Greg brought up the need to have job descriptions for club offices and committee chairs. The current club officers will have a job description ready for the October elections.

Les brought up the fact that we currently have a committee chair that is not a current club member.

Jody said the club historical files are still missing. Board members will redouble their efforts to locate them. The next board meeting will be at the QTH of Les, KCØNC. Board adjourned at 2:15. Submitted by Ron, NKØP, Club Secretary.

TREASURER'S REPORT:
for period ending 7/31/1997

For the general fund:
Income - Expenses = Net
Income/(Loss)
\$192.00 - \$379.60 = (\$187.60)

Contact me for a more detailed
report.

501(c)(3): Marshall Quiat AGØX came by our last meeting and hopefully answered all the questions that everyone had. The biggest concern that I felt the club members had was how the club would be affected by the tax exempt status. Marshall stated that the club shouldn't change at all. I tend to agree, noting that the only changes that I would notice would be annual reporting on a tax form not unlike the 1040EZ that some of us already use. The meetings, programs, classes, VE testing, fox hunts, picnic, Field Day, Christmas Party, and any other things we already do will continue to take place. If we approve the tax status, and if the IRS grants us the status, the only change I envision will be on the part of the members that want to help raise funds for the purposes of the club, and want to help use the funds received. As promised in the last Zero Beat, I mentioned that we'll bring this to a vote again in September at the club meeting.

Whatever your preference, if you want your vote to count, please come. Jeff, our president, took an action to find out about proxy voting. He said he'd look in Roberts Rules of Order to see what is proper. Since we abide by those rules, what he finds out is what goes. Please call Jeff immediately if you can't make it to the meeting and see what he found out. Or e-mail Jeff at the address on page 2.

1998 Raffle: Carlos Caro KBØREI, our swapfest chairman, has set the monthly swapfest planning meeting date to the first Saturday of each month between now and Swapfest Day in May. The location and time is the COS police station, Falcon Division, on Goddard St, just W of Chapel Hills Mall, at 1000. I strongly encourage you to volunteer your time and efforts to this next swapfest to help make it the biggest and best we've ever had.

Dues: I'm getting in a steady stream of dues, thank you. I've also been receiving a few more ARRL renewals. Thanks for those. Remember, please send your ARRL renewals to me at the club PO box address. It doesn't cost you any more, but the club gets a \$2 commission for each renewal handled.

Misc: Oops! My apologies to a couple of the members. I accidentally misplaced two renewal forms; consequently those two

members didn't get their Zero Beats. I've taken care of that and will take care of any forms immediately to keep that from recurring. On a happy note, congrats to one of our newest members, David Ek, KBØYSN. Seems Dave won the IC-706 raffled off at the MARC Campfest on 8/24. It's especially nice for him since he just upgraded to General at the last VE test session. By the way, Dave went to take his 13 wpm test, and walked out with a CSCE for 20 wpm! Seems things are really going his way. Don't let that CSCE sit too long, Dave.

-wb7wht

Proxy Voting
Jeff Boyes, NØILH

After the last General Membership meeting, a club member asked if the PPRAA allows proxy voting. He stated that he would be out of town, and wanted to vote on the 501(c)(3) issue that is upcoming.

After having read the pertinent parts of Roberts Rules of Order and the club bylaws, I believe that proxy voting is not allowed at PPRAA General Membership meetings.

I believe that the vote on the 501(c)(3) status is an important one, and I would encourage all voting members to be in attendance at the next meeting.

73,
Jeff

Elmer's Etiquette #2 - How's your EQ?

Because so much of what hams learn is from what they hear on the air, this column is written in the spirit of bettering amateur radio operating practices. This column describes real-life happenings heard locally on the air, and multiple choice answers of what operating etiquette should be. One or more of the wrong answers were actually observed on the air. Keep in mind the elmering process is to help, not openly criticize. Even though these are actual real-life happenings, no names will be mentioned.

If you would like to share a circumstance, please send it to Elmer's Etiquette in care of the PPRAA at the club's Post Office box.

So here is this month's question.

Q. The repeater hasn't keyed up for over an hour when someone asks if the repeater is in use. Etiquette dictates:

1. You say "yes" and call someone;

2. You say "yes" and see how long before someone uses it;
3. Ignore the query or say "no,"
4. All of the above.

My choice is 3, what's yours?

Until Next Month . . .

73, Elmer

OM/YL LUNCH BUNCH

Lunch Bunch will hold their September get together at The Home Town buffet.

Home Town is located at The shops of the Bluffs... Academy Blvd and Austin bluffs.

We call ourselves the Lunch bunch. We welcome each and everyone to join us for lunch and visiting. We have a great time.

Russ and I plan on being there at 11:30 AM. We stay till...? Join us.

73

Rosie Calaway, WA0MNL
471-9965

Swapfest Committee Meeting

The first meeting of the swapfest 98 committee took place Sat, Aug 2 at the Falcon Police substation.

The prizes agreed to are:

- 1 Alinco Dual Band Transceiver DR606T
- 2 High Sierra HF Mobile Antenna HS1500
- 3 Garmin GPS Receiver GPS II
- 4 200 Watt DC Power Supply Astron RM35A or Alinco DM1350
- 5 Kantronics TNC KPC9612 +32

Depending on input from the members we could change some of the prizes for Computer Soft/Hardware items that would interest. We extend an invitation to any member who would care to attend the monthly swapfest committee meetings.

They will be held at 10AM, 1st Sat of each month. A special invitation is extended to the board members as we will be asking for a event budget

The reservation of the High School is dependent on the District 11 returning to the fall semester. More to come in the following months es 73 to all.

Carlos Caro KB0REI
Swapfest 98 Chairman

These items will run for one more issue. If you sell any item, please email or call the editor to add to or discontinue your ad.

Thanks,
Editor



Dits and Bits

For Sale:

- Kenwood TS-830 & MC-50 mike \$500.
 - Ameritron AL-811 Amplifier \$450.
 - MFJ-202B RF Noise Bridge \$35.
 - MFJ-949B Versa Tuner II \$60
 - Heathkit HD-1410 Electronic Keyer \$15.
 - Digital VT-220 Terminal \$20.
 - Lear Seigler ADM-3A Dumb terminal \$5.
- Contact: E. J. ,KD0NB, at 495-9007.

FOR SALE:

- MFJ HF/VHF SWR Analyzer Model MFJ-249, 1.8 - 170 Mhz Price \$125 obo
- Bendix King radio, it is a 28 channel VHF Commercial radio with Amateur capability. It comes with the rapid charger and a speaker mike. The asking price is \$325, these radios sell for \$600 new.

Call Ginger N0UOD 528-8361, or email me at ghipszyk@kktv.com.

FOR SALE:

- ICOM IC 471A All mode base station for 430-450 MHZ. \$600.00
- High Quality Tru-Line wattmeter. (uses Bird Slugs) \$100.00 (includes one slug)
- KLM 32LBX 432 MHZ antenna \$100 (Aprox 20 feet long)

Ron NK0P 593-8352 e-mail deutschra@aol.com

For Sale: by K0CI, Steve

- Kantronics KAM all-mode TNC version 5.0, Asking \$135
- Johnson Messenger 123A, 23 Channel CB Radio (Could be converted to 10 meters) Asking \$15

Call Steve at 598-3554

NOTICE

The following need to contact the Treasurer.

Deboran, KB0WIX;
Billie, NG5G; Roxy, KE0OW;
Fay, KB0QI; Bill, KB0UVE;
Steve, KB0VJR;
Patricia, KB0REF; Jeff, KG0YE;
John, N0KIC; Cindy, KB0WXA
Donna No Call

Editor's Notes
Bill Pierce, KD0JU

I have instituted what I call my "floating deadline" for articles. This will be the latest I can receive articles and still make the Zero-Beat. The Published deadline will remain the

same, as published on the second page. The floating deadline is for articles only, not advertisements. If I have the article in my email or the disk in my hands by the floating deadline, it will be published. Typewritten or voicemail articles will still have to reach me before the published deadline to give me time to type them up for the Zero Beat.

As always I need more articles; the more the merrier, large and small.

Please send all articles to/via:

1. email to kd0ju-1@juno.com
2. Direct via modem after 550-0406, 33.6K/bits, standard settings(Please call voice first to give me time to either bring up the program and/or turn the computer on!)
3. 3.5 in disk
4. paper via snailmail or hand delivery

So get those articles in!

73
Bill Pierce, KD0JU
Editor

P. S. I would like to thank the following members for their submissions for the 0-Beat (in no particular order: Rosie, WA0MNL; Dave, N0UVR; Ron NK0P; Rob, WB7WHT; Jeff, N0JLH; Frank, KF0WF; Carlos, KB0REI; Paul, W0RW; Aaron, KD6FLM & Elmer.

Upcoming Hamfests
What? BARCFest Radio/Computer Swap

When? Sunday, September 28, 1997
Where? Boulder Co. Fairgrounds,
Longmont, CO
How long? 0800 to 1400
Test? VE Testing at 1000

How Much?
Admission \$4 per person

Talk-in: 146.7-

Prizes:
Two grand prizes: Two Yaesu FT-
50R Transceivers (146/440 MHz
HT)

Icom Representative will be present.

Table reservations \$10 prepaid / \$15
at the door.

Call 303-673-0289 for more info!

PPRAA Swapfest 98 News

I am happy to report that the rental rates for the Gym and Classrooms at Doherty HS will be the same as last year. I have received the contract forms from the Dist 11 office and will fill them out. They require two dates on the application so in addition to the 2nd of May as primary, I will list the 16th of May as alternate. The next meeting of the committee will be the 6th of Sept at the Falcon Sub-Station, 10:00 AM.

We are still looking for any input for Computer related Raffle prizes. If you have any suggestions please contact a committee member and let your choices be known. In a previous message I identified the HF mobile antenna incorrectly, please change that to "All Band Mobile Ant KH-600". Its a good one and built by a local ham right here in Colo Spgs.

Regards. Carlos Caro KBØREI
Swapfest 98

FOX HUNTS

The Colorado Springs Fox Hunters will have a fox hunt on Sunday Sept 14 in Colorado Springs. We will meet in the parking lot in front of Batteries Plus at 3320 Austin Bluffs Parkway (about 0.45 miles west of Academy and Austin Bluffs intersection, on the north side) at 1:45 PM. Starting mileage of the hunters will be taken, and at 2:00 PM the hunt will begin. The fox maybe an automated beacon hidden by someone (if we can actually get the thing built by then). Talk in will be on the 146.97(-) repeater and 146.58 simplex.

We hope to have a fox hunt every month on the Sunday following the PPRAA club meeting (the second Wednesday of the month).

For more information contact:
Dave NØUVR
dfk@col.hp.com

GET YOUR CODE CLASS HERE

A Novice 5 wpm code class is being considered for this fall. The class will be held for eight weeks, meeting two nights per week for two hours per night (7-9 p.m.). The class will consist of the seven ARRL character groups taught over an eight week period. In addition to the introduction of the code, class members will assemble an audio oscillator to be used to send

Modulated Continuous Wave (MCW) over an FM radio. The MCW transmissions will be used in the second half of the course to allow students to experience sending and receiving code over the air via two meter simplex.

This class is designed for both licensed and unlicensed persons interested in learning or practicing International Morse Code. The estimated cost of the class is approximately \$10.00 to \$15.00 to cover the cost of the MCW oscillator. Each student will keep their code oscillator after the class. The class will begin during the week of October 20th and will probably be held on Tuesday and Thursday evenings. Class dates will be established around the instructors school schedule.

The decision to hold the class will be based on the number of interested persons. A minimum of 10 students will be required to conduct the classes.

Those people interested should contact Barbara/NØVBK at 596-8733.

Announcements of the class will be made on the 146.625(-)/448.725(-) repeater and in future additions of the Zero Beat.

Frank McNally/KFØWF

THE TEN COMMANDMENTS OF ELECTRONICS

From WØRW via email

Then a set of commandments appeared. Variations have continued to appear from time to time; and those quoted below appeared, from

seems only right and proper that they should be seen in our pages. After all, we are trying to fit pieces of the history of our art together and such commandments are surely a part if that history and should be recorded for posterity.

1. Beware of the lightning that lurketh in an undischarged capacitor, lest it cause thee to be bounced upon thy buttocks in a most ungentlemanly manner.

2. Cause thou the switch that supplieth large quantities of juice to be opened and thusly tagged, so thy days may be long in this earthly vale of tears.

3. Prove to thyself that all circuits that radiate and upon which those workest are grounded, lest they raise thee up to high-frequency potential and cause thee to radiate also.

4. Take care that thou use the proper method when thou takest the measure of high voltage circuits so that thou dost not incinerate both thyself and the meter. For verily, though thou hast no account number and can be easily replaced, the meter hath one and as a consequence, bringeth much woe unto the Supply Department.

5. Tarry thou not amongst those who do deal in intentional shocks, for they are surely unbelievers and are not long for this world.

6. Take care that thou tamperest not with interlocks and safety devices, for this will incur the wrath of thy seniors and bringeth the fury of the safety officer down upon thy head and shoulders.

7. Work thou not upon energized equipment, for if thou dost, thy buddies surely will be buying beers for thy widow and consoling her in other ways not generally acceptable to thee.

8. Verily, verily I say unto you, never service high voltage equipment alone, for electric cooking is a slothful process and thou mightst sizzle in thine own fat for hours on end before thy Maker seeth fit to end thy misery and drag thee in His fold.

9. Trifle thou not with radioactive tubes and substances lest thou commence to glow in the dark like unto a lightning bug, and thy wife be frustrated nightly and have no further use for thee except thy wage.

10. Commit thou to memory the works of the prophets, which are written in the books of instruction, which give the straight dope and which console thee, and thou canst not make mistakes.

(From a publication of the British Directorate of Telecommunications)
Reprinted from the DIAMOND JUBILEE YEARBOOK of the Radio Club of America,
volume 54 no.3, Fall 1984

Bill, K5ZTY
Houston, TX
k5zty@juno.com

Elmer is busy this month! Here is the next question.

Q. The repeater hasn't keyed up for over an hour when someone asks if the repeater is in use. Etiquette dictates:

1. You say "yes" and call someone,
2. You say "yes" and see how long before someone uses it;
3. Ignore the query or say "no,"
4. All of the above.

My choice is 3, what's yours?

Until Next Time . . .

73, Elmer

From the ARRL Letter #16 V.34 FCC REVISES RF SAFETY "THRESHOLD" LEVELS

The FCC has revised the power level thresholds to trigger a routine Amateur Radio station RF exposure evaluation, and the changes will be welcome news for most hams. When the FCC first decreed a year ago that ham radio stations would have to comply with RF exposure guidelines, it set a 50-W threshold level. The updated guidelines, announced August 25, increase that threshold level on all HF bands except 10 meters, where it remains at 50 W.

The FCC made no changes in the RF exposure limits it announced last year.

The new RF safety guidelines are scheduled to become effective January 1, 1998, for Amateur Radio stations.

The FCC went along in part with a request by the ARRL to establish a sliding scale for threshold levels, depending upon frequency. The revised thresholds are 500 W for 160 through 40 meters, 425 W on 30 meters (where the maximum legal power is 200 W), 225 W on 20 meters, 125 W on 17 meters, 100 W on 15 meters, 75 W on 12 meters and 50 W on 10 meters. The threshold for all VHF bands is 50 W. On UHF, the threshold level is 70 W on 70 cm, 150 W on 33 cm, 200 W on 23 cm, and 250 W on 13 cm and above. Stations operating at or below these respective power levels are categorically excluded from having to perform a routine RF radiation evaluation. However, all stations, regardless of power level, still must comply with the RF exposure limits.

Along with its August 25 Second Memorandum Opinion and Order announcing the changes, the FCC released the "core" text of its long-awaited Office of Engineering and Technology (OET) Bulletin 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. The bulletin contains generic equations that can be used to analyze fields due to almost all antennas, although the FCC warns that "the resulting estimates for power density may be overly conservative in some cases." Hams leery of formulas might opt to wait for the easier-to-use

supplement B to OET Bulletin 65, which will include information designed specifically for evaluating Amateur Radio installations. The supplement promises to detail how hams can determine more simply if their individual stations comply with the new regulations. The FCC says the supplement will contain "information on projected minimum exclusion distances from typical amateur antenna installations."

The FCC said it would issue Supplement B "as soon as a review of the current draft is complete." When it's ready, Supplement B will be available to download from the FCC's Web site, <http://www.fcc.gov/oet/rfsafety>. The FCC directed inquiries as to the availability of the supplement and other RF-related questions to its RF Safety Program, 202-418-2464; e-mail rfsafety@fcc.gov.

Last year, the FCC established time-averaged maximum permissible exposure (MPE) limits for RF fields in two tiers—for controlled environments (ie, a ham's immediate household, including visitors) and uncontrolled environments (ie, neighbors, the general public). If a routine evaluation of a ham station indicates that human exposure to RF fields could be in excess of the FCC's MPE limits, the licensee must act to correct the problem and ensure compliance. This could include changing operating patterns, relocating antennas, restricting access, changing frequency, output power or emission type or any combination of these and other remedies.

The FCC says that ham radio facilities "represent a special case for

determining exposure, since there are many possible antenna types that could be designed and used for amateur stations."

The revised regulations categorically exclude most mobile installations, including those in the Amateur Radio Service, from having to comply with the RF-exposure or station evaluation guidelines. Since the FCC issued its guidelines, additional questions on RF safety have been added to the Amateur Radio examination question pool.

OET Bulletin 65 and the FCC Second Memorandum Opinion and Order are available at <http://www.fcc.gov/oet/dockets/et93-62/>. More details on the FCC's latest announcement on RF safety will appear in the October issue of QST.

Elmer's Etiquette - #3

Q. The repeater has been quiet at least 10 minutes and you hear a station calling another. Etiquette dictates:

1. You wait 2 seconds and call someone;
2. You wait 10 seconds and call someone;
3. Wait 30 seconds or more after the second attempt of the first operator's call then make your call;
4. None of the above.

My choice is 3, what's yours?

Until Next Month . . .

73, Elmer

Front Range Net List - May 1, 1997
information compiled by the Denver Radio Club

Day	Time	Group	Frequency	PL	Notes
Daily	0630	Colorado Weather Net	146.94-	103.5	Daily
Daily	1930	Central Colorado Traffic Net	145.31-	123.0	Daily
Daily	2000	Northern Colorado Traffic Net	145.115-	100.0	Daily
Daily	2000	Southern Colorado Traffic Net	146.97-	100.0	Daily
Sun	0830	Statewide ARES Net	145.31-	123.0	
Sun	0830	Quarter Century Wireless Assoc.	145.115-	100.0	QCWA N. Colo Chapter 143
Sun	0900	Colorado Repeater Association, linked with 145.16 for net	147.225+	145.16-	Swap follows
Sun	0930	District 22 ARES	146.64-		Arapahoe County
Sun	0930	QCWA & Castle Rock Repeater Grp	146.67-		QCWA Chap 58 & CRRG
Sun	1000	Six-Meter Invitational Net	53.050-		
Sun	1900	APRS Net	147.225+		Packet APRS System
Sun	1900	BARC Jr. Hams Net	146.7-		
Sun	1900	Intermountain Repeater Group linked with 449.525	145.28-	449.525-	
Sun	1900	Radops	146.985-		Shriners
Sun	2000	District 13 ARES	147.33+	100.0	Denver County
Sun	2000	District 23 ARES	146.67-		Jefferson County
Sun	2000	Rocky Mountain Monitoring Net linked with 145.46 for the net	147.225+	145.46-	Scanners & Frequencies
Sun	2030	Denver Radio Club	147.33+	100.0	
Sun	2030	Pikes Peak FM Association	146.97-	100.0	
Mon	1900	Front Range ARES Net	144.22		USB
Mon	1900	Friends on Two	144.22		USB informal, + or - a few kc
Mon	2000	Colorado QRP Club	147.225+		
Mon	2000	District 11 ARES	146.76-		Boulder County
Mon	2000	District 27 ARES	145.43-		Adams County
Mon	2000	Rocky Mountain VHF Net	144.22		USB, not held regularly
Mon	2030	Colorado Connection YL Net	145.31-	123.0	
Mon	2030	Rocky Mountain Radio League linked with 449.45 for net	146.94-	103.5	Swap follows
			449.45-		
Tue	1900	Astronomy Net	146.94-	103.5	
Tue	1900	District 14 ARES	146.97-	100.0	El Paso & Teller County
Tue	2000	Colorado Special Events Net	146.94-	103.5	
Tue	2000	Edge of Space Sciences	147.225+		High Altitude Ballons
Tue	2100	District 10 ARES	145.115-	100.0	Northern Colorado

Wed	1900	Masonic	146.985-		
Wed	2000	AMSAT	147.225+		Amateur Satellites
Wed	2000	Aurora Repeater Association	147.15+		Swap follows
Wed	2000	Colorado YL Inc	145.31-	123.0	
Thu	2000	Amateur Television	144.340	426.25	<- input
		Simplex Coordination		1253.25	<- output
Thu	2000	Colorado Connection Net	145.31-	123.0	
Thu	2000	Direction Finders Net	146.94-	103.5	Fox Hunting
Thu	2000	District 24 ARES	147.225+		Douglas & Elbert
Thu	2100	Colorado TCP/IP Group	147.225+		Packet Net
Fri	2000	Nostalgia Net	145.49-	100.0	Talk about old times!
Sat	1930	Colorado YL Inc	145.43-		

SB PROP ARL ARLP035

ARLP035 Propagation de K7VVV

The past two weeks have been generally good for HF propagation, with the solar flux above the average (73) for the previous 90 days on all 14 days. The solar flux slid to a low of 74.6 on August 20 and 21, then rose to a peak of 83.8 this week on August 26. Geomagnetic conditions have been very stable.

Based on the previous solar rotation, solar flux was expected to drop below 80 at the end of the first week in September, but as this bulletin is being written it has taken a sudden jump of almost 10 points to 90.5. The activity is from regions 8076 and 8078, which are from an older region splitting in two and becoming more active.

The solar flux has not been this high since November 29, 1996, when there was an exciting flurry of activity that many believed was the start of solar cycle 23. The flux rose above 91 on November 23, and reached a peak of 104.4 two days later.

Conditions should be excellent over the next few days, with solar flux expected to be in the low nineties through the weekend. Geomagnetic conditions should be quiet to unsettled, which means a K index of zero to three.

Based on conditions four weeks earlier, unsettled to active geomagnetic conditions could hit around September 9 and 10, and solar flux is expected. Could this be the long awaited start of a real increase in solar cycle 23? Let's hope so. If we can believe the averages for previous cycles we are surely overdue. Given the rise in solar flux and the gradual change toward the Fall season, HF radio conditions over the next week should be excellent.

Sunspot Numbers for August 14 through 20 were 49, 60, 33, 23, 11, 11 and 11 with a mean of 28.3. 10.7 cm flux was 79.5, 77.7, 77.9, 75.6, 75.8, 74.4 and 74.6, with a mean of 76.5, and estimated planetary A indices were 17, 8, 9, 9, 6, 5, and 5, with a mean of 8.4.

Sunspot Numbers for August 21 through 27 were 11, 11, 11, 0, 32, 30 and 33 with a mean of 18.3. 10.7 cm flux was 74.6, 75.5, 76.5, 77.7, 82, 83.8 and 81.9, with a mean of 78.9, and estimated planetary A indices were 9, 7, 4, 6, 4, 3, and 5, with a mean of 5.4.

Membership Application - Pikes Peak Radio Amateur Association, Inc.

P.O. Box 16521, Colorado Springs, Colorado 80935

Date: _____ New Membership ☐ Renewal ☐
Name _____
Address _____
City _____ State _____ Zip _____
Call _____ License Class _____ Telephone _____
Email Address _____

Are you an ARRL member? Yes ☐ No ☐

One year membership rates. (Year starts with the month you receive your first issue.)

Full Member	\$15.00 ☐	Family Membership (same address)	\$18.00 ☐
Over 65	\$12.00 ☐	Family Membership (both over 65)	\$12.00 ☐
Associate (outside El Paso or Teller Co.)	\$12.00 ☐	Newsletter only	\$12.00 ☐

Additional Names: _____ Call _____ Class _____

Please Note: You must submit a completed application form along with your check to the Treasurer for both new members as well as renewals. Thank you. PLEASE TYPE OR PRINT CLEARLY!

This space could have (should have?) been yours!!



Remember, this is our newsletter! Contact the Editor (listed on the inside front cover) with your suggestions!